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EDUCATION:

B.A. in Economics from Virginia Polytechnic Institute and State University (June, 1971)
Graduate study in Business and Finance - Virginia Commonwealth University
(July, 1971 - June, 1973)

M.A. in Economics from Virginia Polytechnic Institute and State University (May, 1975)
 Ph.D. in Economics from Center for the Study of Public Choice, Virginia Polytechnic Institute and State University (May, 1977)

FIELDS:

Microeconomic Theory, Economics of Regulation, Industrial Organization, Public Choice

CURRENT POSITION:

Director - Economic & Public Policy Regulatory & Governmental Affairs Verizon Services Group Irving, TX 75038 (October, 1997 to Present)

PREVIOUS POSITION:

Chief Economist Regulatory & Governmental Affairs GTE Telephone Operations Irving, TX 75038 (October, 1992 to June, 1997)

PREVIOUS POSITION:

Director - Pricing Policy Product Management Department GTE Service Corporation Irving, TX 75015 (June, 1988 to January, 1992)

PREVIOUS POSITION:

Visiting Adjunct Professor School of Business University of Kansas Lawrence, KS 66045 (June, 1992 to June 1999)

PREVIOUS POSITION:

Director - Federal Regulatory Matters Regulatory & Governmental Affairs GTE Telephone Operations Irving, TX 75038 (February, 1992 to October, 1992)

PREVIOUS POSITION:

Adjunct Professor Dept. of Economics University of Connecticut Stamford, CT. 06903 (June, 1982 to Jan. 1989)

PREVIOUS POSITION:

Pricing & Economic Policy Manager Regulatory Affairs Department GTE Service Corporation Stamford, CT. 06904 (June, 1981 - June, 1988)

PREVIOUS POSITION:

Senior Technical Analyst Management Sciences Section GTE Data Services, Inc. Tampa, FL. 33601 (July, 1976 - January, 1978)

PREVIOUS POSITION:

Senior Economic Analyst Regulatory Economic Research GTE Service Corporation Stamford, CT. 06904 (January, 1978 - June, 1981)

PREVIOUS POSITION:

Rate Economist
Dept. of Rates and Contracts
Virginia Electric & Power Co.
Richmond, VA. 23219
(June, 1971 - September, 1973)

CURRENT RESEARCH:

Pricing and costing of evolving telecommunication networks and evaluation of welfare, allocative, and distributive effects of alternative pricing systems; Evaluation of alternative regulatory regimes for public utility services; Demand and cost analysis of telecommunications services; Experimental design of peak load pricing experiments; Evaluation of competition in telecommunications markets.

CONSULTING & TESTIMONY PREPARATION:

Virginia State Corporation Commission: design and development of forecasting methodologies for use by Commission in evaluating capital budgets of electric utilities in Virginia; (August, 1975 - June, 1976)

Testimony/Exhibits/Comments Prepared and Filed before:

Federal Power Commission (now FERC)
Federal Communications Commission
Virginia State Corporation Commission
North Carolina Utilities Commission
West Virginia Public Service Commission
Public Service Commission of Wisconsin
Public Utility Commission of Ohio
Hawaii Public Utilities Commission
Illinois Commerce Commission
California Public Utilities Commission
Kentucky Public Service Commission
South Carolina Public Service Commission
Georgia Public Service Commission
Florida Public Service Commission

CONSULTING & TESTIMONY PREPARATION (continued):

Testimony/Exhibits/Comments Prepared and Filed before (continued):

Corporation Commission of Oklahoma
Indiana Utility Regulatory Commission
Michigan Public Service Commission
Iowa Utilities Board
Pennsylvania Public Utility Commission
Public Utility Commission of Texas
Public Utility Commission of Oregon
Washington Utilities and Transportation Commission
Alabama Public Service Commission
New Mexico State Corporation Commission
Minnesota Public Service Commission
Public Utilities Commission of Nevada
Idaho Public Utilities Commission
Connecticut Department of Public Utility Control

Other Regulatory Appearances:

NARUC Technical Education Conference for Commissioners

New England Council of Public Utility Commissioners

Alabama Public Service Commission Telecommunications Conference

Virginia State Corporation Commission Annual Conference

Instructor - NARUC Annual Regulatory Studies Program; Michigan State University

South Carolina Public Service Commission Annual Conference

Current Policy Issues Forum for Commissioners, NARUC

Legislative Testimony:

Before the Indiana House Commerce Committee
Before the Illinois House Public Utilities Committee
Before the Florida House of Representatives
Before the Texas Senate Finance Committee
Before the Illinois Senate Energy and Environmental Committee
Before the Texas House Ways and Means Committee
Before the Virginia General Assembly

PRESENTATIONS and PUBLICATIONS:

"Econometric Estimation of Peak Electricity Demands", <u>Journal of Econometrics</u>, January, 1979 (with R.M. Spann);

"An Interventionist Theory of Public Utility Regulation", Paper presented to the Virginia Economic Association, March, 1976, Richmond, VA;

"Alternative Bidding Arrangements: A Study of Risk and Uncertainty in the Domestic Oil Industry", Paper presented to the Western Economic Association, June, 1976, San Francisco, CA. (with S. Millsaps);

"The Demand for Residential Telephone Services Under Non-Metered Tariffs: Implications for Alternative Pricing Policies", Paper presented to the Western Economic Association, June, 1977, Anaheim, CA;

"The Financial Effects of Local Measured Service on the Operating Telephone Company", Paper presented to the Telecommunication Industry Workshop, March, 1979, Kansas City, MO;

"Forecasting Peak Electricity Demands", Paper presented to the Electric Power Research Institute, April, 1977, Aspen, CO;

"The Supply of Private, Semi-Public, and Public Goods: Budget Size in a Democracy Revisited", <u>The Southern Economic Journal</u>, October, 1978, (with J.M. Fesmire)

"Econometric Estimation of Peak electricity Demands", Paper presented to the Southern Economic Association, November, 1977, New Orleans, LA. (with R.M. Spann); also appearing in <u>Forecasting and Modeling Time-of-Day and Seasonal Electricity Demands</u>, Electric Power Research Institute, December, 1977.

"The Demand for Electricity in Virginia", <u>The Review of Economics and Statistics</u>, November, 1978, (with R.M. Spann, M. Murray, and L. Pulley);

"An Evaluation of Potential Welfare Gains from Usage Pricing of Local Telephone Service", Paper presented to the Western Economic Association, June, 1978; Honolulu, HI.

"Review of Modern Political Economy", The Southern Economic Journal, January, 1980.

"The Financial Effects of Local Measured Service", in <u>Perspectives on Local Measured Service</u>, TIW, October, 1979;

"Usage Sensitive Pricing", <u>Proceedings of the 5th Annual Symposium on Rate making Problems of Regulated Industries</u>, May, 1979, (with G. Cohen);

"The Demand for Local Exchange Service: Some Implications for Planning", Proceedings of the 3rd International Conference on Analysis, Forecasting, and Planning for Public Utilities, June, 1980, Paris, France; (with G. Cohen);

"Local Loops as Barriers to Entry?", in <u>Challenges for Public Utility Regulation in the 1980s</u>; Michigan State University: December, 1980; also appearing in <u>Proceedings of Workshop on Telecommunication Issues</u>; Bureau of Utility Research, University of Connecticut: January, 1984; (with J. Alleman);

<u>Universal Measured Service Policy Statement</u>, GTE Service Corporation, March, 1980.

"No Main Is An Island", Paper presented to the Western Economic Association, July, 1981, San Francisco, CA. (with J. Alieman).

"Review of <u>Peak Load Pricing: European Lessons for US Energy Policy</u>", <u>The Southern Economic Journal</u>, July, 1981.

"Predicting Local Telephone Usage Under Measured Service", <u>Public Utilities</u> <u>Fortnightly</u>, August 5, 1982; (with G. Cohen and L. Garfinkel);

"The Economic Impact of Access Charges: Does Anyone's Ox Need to be Gored?", in <u>Adjusting to Regulatory</u>, <u>Pricing</u>, <u>and Marketing Realities</u>: Michigan State University, December, 1983, (with L. Cole);

"Metering Costs and Measured Service: An Evaluation of Efficiency Gains from Usage Sensitive Pricing of Telephone Service", Paper presented to the Institute of Public Utilities, December, 1983, Williamsburg, VA. Also in Changing Patterns in Regulation, Markets, and Technology: The Impact on Public Utility Pricing: Michigan State University, December, 1984.

"A Cost-Benefit Analysis of Alternative Local Service Pricing: Estimates From a US Telephone Company", in <u>Local Telephone Pricing</u>: Is <u>There a Better Way?</u>: Canadian Radio-Television & Telecommunications Commission and The Centre for the Study of Regulated Industries, McGill University, Third Quarter, 1984.

"An Overview of the Economic Impacts of Local Measured Service", Paper presented to the Kentucky Telephone Association, May, 1985, Lexington, KY;

"Exchange and Interexchange Rate Design", Presented to the NARUC Annual Regulatory Studies Program; Michigan State University, June, 1985.

"Cost Trends in Telecommunications", Presented to the Electronic Funds Transfer Association, June, 1985, New Orleans, LA;

Rational Pricing in a Competitive/Regulated Environment: Conceptual Statement of Rate Design and Public Policy, GTE Service Corporation, August, 1985.

Rational Pricing in a Competitive/Regulated Environment: Strategy Implementation Guidelines, GTE Service Corporation, December, 1985.

"Alternatives for Traffic Sensitive Cost Recovery", Paper presented to Bellcore Seminar on TS Costs; March, 1986, Seattle, WA;

"Implications of Cost Characteristics of New Technologies for the Pricing of Telecommunications Services", Presented to the University of Georgia Public Utilities Conference, September, 1986, Atlanta, GA;

"La tarification des telecommunications", in <u>Le Bulletin de l'Idate</u>, April, 1986; Geneva; (with J. Alleman, L. Cole, and N. Stolleman);

"The Competitive Pricing of Telecommunications Services: Does LMS Still Have a Place?", Paper presented to Conference on Local Measured Service, May, 1987, Washington, D.C.

"Rational Pricing of Telephone Services in the New Environment", Presented to the Georgia Telephone Association, June, 1987, Jekyll Island, GA.

"Funding Tomorrow's Electronic Highways; Who Should Pay the User Fees?: Trucks? - Nissans? - Ferraris?," Presented to Tennessee Tomorrow, Belmont College: Nashville, Tennessee, September 30, 1987; Tenessee Public Service Commission, Tennessee Telephone Association, Tennessee Department of Economic and Community Development, Tennessee Technology Foundation, Tennessee Valley Aerospace Board. Abstract published in <u>Tennessee Tomorrow:</u> Building Electronic Highways for Economic Growth.

"Of Taxis and Telecommunications," Invited paper presented to the First Annual Telecommunications Conference, August 16-17, 1988. Sponsored by the Alabama Public Service Commission, Birmingham, Alabama.

"Costing Strategies in a More Competitive Environment," Invited paper presented to the GTE North Regulatory & Legal Conference; August 23-24, 1988, Lake Geneva, Wisconsin.

"Regulatory Reform: A Vision of the Future From the Perspective of a Local Exchange Company," Presented to the Tennessee Telephone Association Annual Conference, September 9, 1988; Chattanooga, TN.

Private Transmission Networks: The Evils of Bypass or Fulfilling Unsatisfied Customer Needs, Paper presented to the 4th Annual Conference on Telecommunications Regulation, January 22, 1989, University of Utah, Salt Lake City

"LMS for ESPs Under ONA BY FCC with PUCs," Paper presented to the Southeastern Regional Public Utilities Conference, the University of Georgia, August 30, 1989, Atlanta, GA.

"The Parable of the Taxi," **OPASTCO Roundtable**, Fall, 1989 (with D. Johnson, and R. Calkins).

"Local Exchange Competition: Where Is Competition Taking Us? or Bottleneck? What Bottleneck," Paper presented to the Institute of Public Utilities, Michigan State University, December 11, 1991, Williamsburg, Virginia. Appearing in Regulatory Responses to Continuously Changing Industry Structures, Michigan State University. Also presented to the OPASTCO Annual Winter Convention & Workshops, January 21, 1992, Orlando, Florida.

"Local Transport Competition: Interconnection and Price Reform - Expanding the Scope," paper presented to the Center for Public Utilities, College of Business Administration and Economics, New Mexico State University, March 11, 1992, Santa Fe, New Mexico.

"Expanded Interconnection and Access Competition: A Holistic Approach to Products and Prices," paper presented to the 18th Annual Rate and Regulatory Symposium, The Changing Environment: Competition, Regulation and Incentives, April 27, 1992, St. Louis, Missouri.

"Regulation and Competition: Sweet Siblings or Evil Twins?," paper presented to the University of Kansas 1992 Fall Stakeholders Symposium on Telecommunications, November 17, 1992, Lawrence, Kansas.

"Some Preliminary Thoughts On Public Policy Implications of Personal Communication Services: Impacts On Support Mechanisms, Price Levels, and Rate Structures," appearing in <u>Washington Telecom Week</u>, December 4, 1992 (Volume 1, No. 36).

"On the Road to Divestiture II: New Organizational & Regulatory Structures for GTE," paper presented to GTE South Area Key Management Meeting: Challenging Times ... Challenging Issues, March 17, 1993, Tampa, Florida.

PRESENTATIONS and PUBLICATIONS (continued):

"Local Exchange Service: What Bottleneck?," <u>Teletimes</u> (Spring, 1993) pp 2 - 5, 17.

"The Good, The Bad, and The Ugly: Regulation and Competition," paper presented to the University of Kansas 1993 Advanced Tele-Management Program, May 26, 1993, Lawrence, Kansas.

"Public Policy for a Multiproduct Firm: Tearing Down the Berlin Wall in Telecommunications," <u>Utilities Policy</u> (November, 1993), (with Virginia Sheffield)

"Fiber To The Cow?? Fiber's Role In The Competitive Marketplace," paper presented to the 16th Annual Newport Conference on Fiberoptics Markets, October 19, 1993, Newport, Rhode Island.

"Regulation and Competition: Bet You Can't Have Just One," paper presented to the University of Kansas 1993 Fall Stakeholders Symposium on Telecommunications, November 18, 1993, Lawrence, Kansas.

"Competition and Rivalry in Telecommunications Markets: Definitional Issues," invited paper presented to NARUC Winter Meetings, February 24, 1994; Washington, D.C.

"Telecommunications Regulation Between Technological Dynamics and Public Policy Goals," paper presented to Current Policy Issues Forum - 19 West, Michigan State University, July 25, 1994, San Diego, California.

"On Market Share & Market Power in Telecom Markets," New Telecom Quarterly (Fourth Quarter, 1994) Volume 2, Number 4, pp. 48 - 52.

"Pricing for Competition: Markets, Politics, Economics & Public Policy," paper presented to TeleStrategies Conference, June 2, 1995, Washington, D.C.

"The Texas Telecommunications Three-Step," paper presented to the Texas Telephone Association Foundation Industry Symposium, April 30. 1996, San Antonio, Texas.

"Organizational Implications of the FCC Interconnection Order," paper presented to the Fourteenth Annual AUM Business Economics Forum, The New Competition in Telecommunications, November 7, 1996, Auburn University, Montgomery, AL.

"Preliminary Implications of the FCC Interconnection Order," The Southern

Business & Economic Journal, April, 1997, Volume 20, Number 3, pp.156-175.

"Scale Economies in Cellular Telephony: Size Matters," <u>Journal of Regulatory</u> <u>Economics</u>," February, 1999, (with R. Dean Foreman).

PRESENTATIONS and PUBLICATIONS (continued):

"Reciprocal Compensation: States Charting Their Own Course," paper presented to the National Association of Regulatory Utility Commissioners, 112th Annual Convention, November 14, 2000, San Diego, CA.

COURSES TAUGHT

Principles of Economics
Introduction to Econometrics
Public Policies Toward Business
Introduction to Public Choice Theory

Industrial Organization Managerial Economics Intermediate Microeconomic Theory Public Finance

HONORS and AWARDS:

Omicron Delta Epsilon Phi Kappa Phi Who's Who in the West Beta Gamma Sigma Who's Who in the East

PROFESSIONAL AFFILIATIONS:

American Economic Association
Southern Economic Association
Western Economic Association
Public Choice Society
Policy Analysis Committee - United States Telephone Association
North American Numbering Council - Dispute Resolution Task Force